



INSTRUCTIONS

-J02970

REV. 8-04-03

Kit Number 56369-03

STREET SLAMMER HANDLEBAR KIT FOR SOFTAILS

General

This kit is designed for installation on 2000 and later FX Softail (except FXSTS), FLSTF and FLSTC model motorcycles.

NOTE

This kit does not fit with Heated Handgrips, Softail Nacelle Kit part number 67907-96, Hydraulic Clutch Kits or Mini Tach Kits on any of the above models.

NOTE

Installing this kit also requires installing new hand grips, which are sold separately. Refer to the latest Harley-Davidson Parts and Accessories Catalog for a selection of hand grips.

In addition to the Handlebar Kit, for each of the Softail models listed below, these additional part numbers are required:

FXST

Black clutch cable	38664-00
OR Braided clutch cable	56414-03
Black throttle/idle cable	56431-98
OR Braided throttle/idle cable	56345-03
Front directional mounting kit	68266-03

FXSTB

Stock black clutch cable	
OR Braided clutch cable	56411-03
Stock black throttle/idle cable	
OR Braided throttle/idle cable	56345-03

FXSTD

Black clutch cable	38665-00
OR Braided clutch cable	56411-03
Braided throttle/idle cable	56392-03
Front directional mounting kit	68266-03

FLSTF and FLSTC

Black clutch cable	38665-00
OR Braided clutch cable	56411-03
Black throttle/idle cable	56431-98
OR Braided throttle/idle cable	56345-03

See the Service Parts illustration for a list of items contained in this kit.

WARNING

A Service Manual is required to install this kit. The rider's safety depends upon the correct installation of this kit. If the procedure is not within your capabilities or you do not have the correct tools, have any Harley-Davidson dealer perform the installation. Improper installation of this kit could result in death or serious injury.

NOTE

A Service Manual for your model motorcycle can be purchased from any Harley Davidson dealer.

Preparation

WARNING

To prevent accidental vehicle start-up, which could cause death or serious injury, disconnect battery cables (negative cable first) before proceeding.

WARNING

Disconnect negative (-) battery cable first. If positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury. (00049a)

1. Refer to the Service Manual and follow the instructions to remove the seat and disconnect the battery cables, negative cable first. Retain all seat mounting hardware.

WARNING

Gasoline is extremely flammable and highly explosive. When servicing the fuel system, do not smoke or allow open flame or sparks in the vicinity. Inadequate safety precautions can result in death or serious injury.

2. Loosen the fuel tank. Refer to FUEL TANK-PARTIAL REMOVAL in the appropriate section (Carbureted or EFI Engine) of the Service Manual.
3. Bleed the brake fluid from the front brakes. See BLEEDING HYDRAULIC BRAKES in the Service Manual.

Removing the Stock Handlebar

CAUTION

Cover the front fender and the front of the fuel tank with clean shop towels to prevent scratching. Damage to the finish could result.

CAUTION

Damaged banjo bolt surfaces will leak when reassembled. Prevent damage to seating surfaces by carefully removing brake line components.

1. Remove the brake line that runs from the front-brake master cylinder to the front-brake caliper. See FRONT BRAKE MASTER CYLINDER in the Service Manual.
2. Using a T27 TORX® drive head, remove the front-brake master cylinder and clutch-lever assemblies (refer to CLUTCH CABLE in the Service Manual) from the stock handlebar.

- Disconnect the handlebar control wiring from the gray and black 6-place main harness connectors under the fuel tank.

NOTE

When performing the following step, note left and right turn signal wire routing.

- See Figure 1. Separate the left and the right turn signal Amp 2-place connector halves.

NOTE

Prior to performing the following step, make a note of connector pin socket location (number) with regard to wire color of each pin.

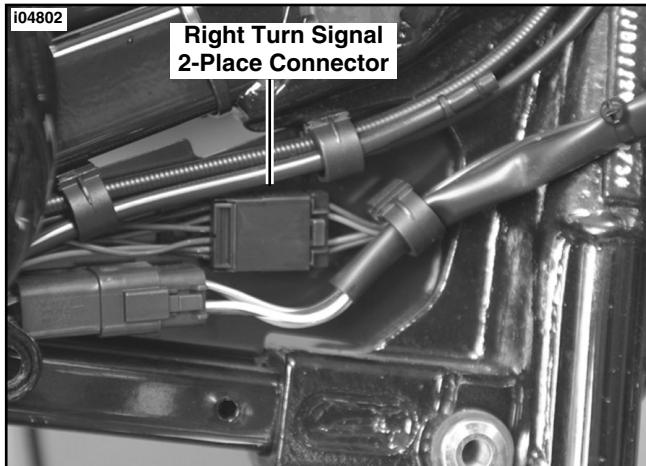


Figure 1. Turn Signal 2-Place Amp Connector

- Following instructions under Amp Electrical Connectors in Service Manual, remove pins from right turn signal 2-place connector. Repeat this step for the left turn signal connector.
- Refer to the RIGHT HANDLEBAR SWITCH section of the Service Manual for removal of the right-side switch housing assembly. This is necessary to access the throttle cables.
- Refer to the THROTTLE CONTROL section of the Service Manual to disconnect the throttle cables from the existing right grip/throttle sleeve assembly.
- Using a T25 TORX drive head, remove the switch housings and attached wiring from the stock handlebar. Refer to HANDLEBAR SWITCHES in the Service Manual.
- See Figure 1. Remove and discard the four hex socket head screws (1) holding the stock handlebar upper clamp (2). Remove the upper clamp and discard.
- Remove the handlebar (3) from the motorcycle.
- Remove and discard the stock handlebar risers (4). Save the remaining hardware for later installation.

NOTE

DO NOT remove the wires from the male Deutsch connectors behind the fuel tank.

- Note the wire positions in the female Deutsch connectors leading from the switches. Refer to the wiring diagram and the DEUTSCH ELECTRICAL CONNECTORS section in the Service Manual. Remove the wires from the connectors.

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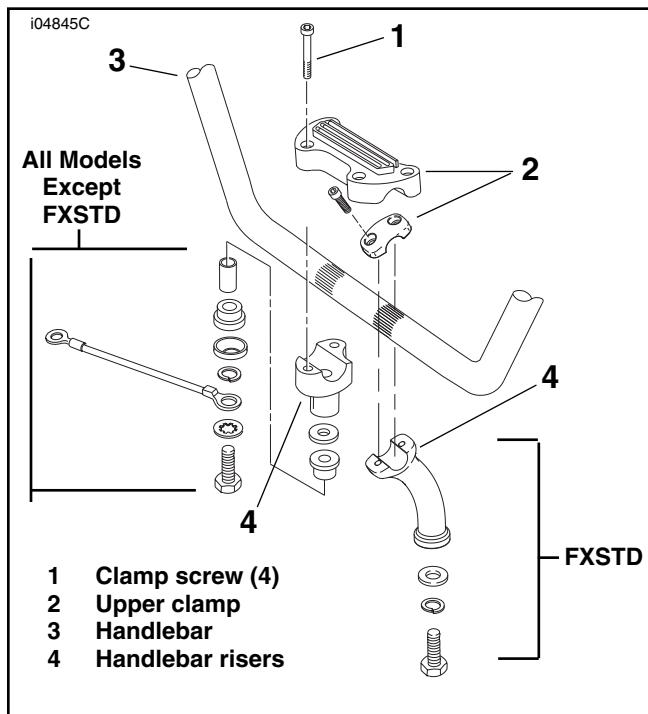


Figure 2. Removing the handlebar cover

- Bind the loose pin-terminal ends of each of the switch-wire bundles and the turn signal wire bundles with tape.

Wiring the New Handlebar

WARNING

Grommets in each of the wiring holes in the handlebar must be in position after routing the switch and turn signal wiring through the handlebar. Switch operation without the grommets in place may damage the wires, causing a short circuit which could result in death or serious injury.

- Remove the wiring retainers from both switch harnesses.

NOTE

The grommets installed in the next step will later be maneuvered into position in the handlebar after the wiring is routed through the handlebar.

- See the Service Parts illustration. Slide one large grommet (2) onto each of the switch-wire bundles. Slide one small grommet (3) onto each of the turn signal wire pairs.
- Apply a light spray of all-purpose lubricant, such as WD-40®, to the right-side switch wire bundle and turn signal wire pair.
- Take two pieces of string that are approximately 3.5 feet long and tie a small spare nut to one end of both strings. Place the new handlebar so that the riser ends are upward. Insert the nut with the strings attached into the right side riser wiring hole and tip the handlebar so that the nut slides out the right grip end of the handlebar. Remove the spare nut from the strings and with a tweezers, fish one string out through the switch wiring hole, and the other string out the turn signal wiring hole. Ensure the opposite ends of the strings are still extending out the riser hole.

⚠️ WARNING

Wiring in the switch housings must be routed carefully and exactly as shown. Pinch points in the switch housings can short-circuit or sever wires, which could cause loss of vehicle control resulting in death or serious injury.

5. See Figure 3. Tie the end of the string from the switch-wire hole to the switch-wire bundle. Gently feed the wire bundle into the right-side wire hole and pull the bundle down through the handlebar and out the riser hole. Ensure the turn signal string stays in place as the switch-wire is fed through the handlebar. Tie the end of the string coming from the turn signal wire hole to the turn signal wire. Gently feed the wire into the hole and pull the wire through the handlebar and out the riser hole.

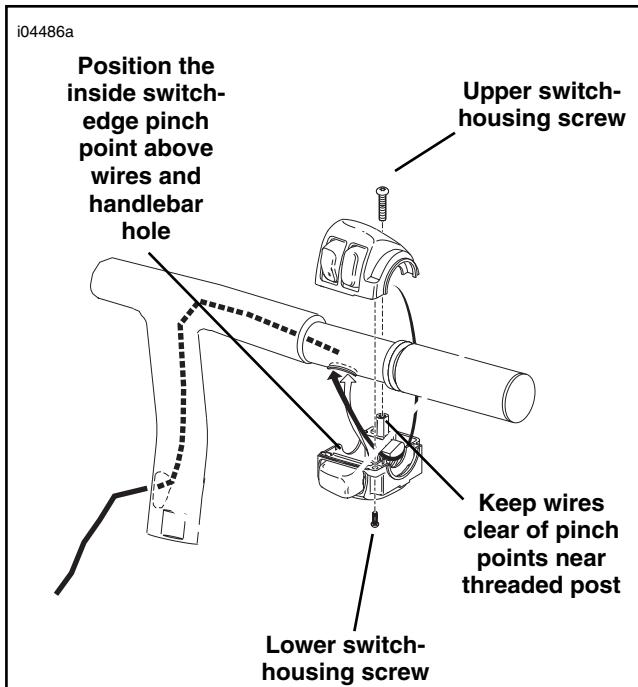


Figure 3. Switch-Housing wire routing
(Right-Side Housing Shown)

⚠️ WARNING

Carefully pull the control wires through the hole in the riser of the handlebar to prevent stripping the wires. Stripped wires can cause short circuits and damage the vehicle electrical components, which could cause loss of vehicle control resulting in death or serious injury.

6. Insert the switch-wire grommet into place in the switch-wire hole in the handlebar. Insert the turn signal grommet into place in the turn signal hole in the handlebar. Slide one large grommet (2) onto both of the wire bundles sticking out of the riser wire hole and insert the grommet into the riser hole in the handlebar.
7. Repeat steps 3 through 6 for the left-side switch wires and turn signal wires.

⚠️ WARNING

Avoid the pinch points shown in Figure 3. Pinch points in the switch housings can short-circuit or sever wires, which could cause loss of vehicle control resulting in death or serious injury.

⚠️ WARNING

Grommets in each of the wiring holes in the handlebar must be in position after routing the switch and turn signal wiring through the handlebar. Switch operation without the grommets in place may damage the wires, causing a short circuit which could result in death or serious injury.

8. Loosely fasten the brake-lever and clutch-lever clamps to the new handlebar.
9. Loosely fasten the handlebar-switch housings to the new handlebar.
10. **ON FXST and FXSTD models**, install the Front Directional Mounting Kit part number 68266-03.

NOTE

It is necessary to install the Front Directional Mounting Kit onto the FXST and FXSTD models to avoid contact between the front turn signals and the fuel tank during vehicle operation.

11. Remove the tape from the ends of the wire bundles.
12. Check for electrical continuity between the handlebar and each wire in the wire bundles. Continuity would indicate a short circuit, which would require examination of the wires and routing in the switch housing.
13. Refer to the wiring diagram and the DEUTSCH ELECTRICAL CONNECTORS section in the Service Manual. Insert each pin-connector from the left-side wire bundle into the correct cavity of the GRAY female Deutsch pin connector removed in **Removing the Stock Handlebar**, step 12, on Page 2.
14. Insert each pin-connector from the right-side wire bundle into the correct cavity of the BLACK female Deutsch pin connector removed earlier.

Installing the New Handlebar

1. Install the new handlebar onto the upper triple clamp using the saved hardware. Torque the riser bolts to 25-30 ft-lbs (34-41 Nm).
2. See the Service Parts Illustration. Connect the 6-place Deutsch connectors coming from the bottom-center of the handlebar to the correct main harness connectors under the fuel tank. Match the gray harness connector to the gray left-hand switch-control connector, and the black harness connector to the black right-hand switch-control connector.
3. Route both turn signal wires down through large oval opening in center of upper triple tree behind front riser cover.

- Follow routing noted in earlier step (left turn signal wires to left side of frame; right turn signal wires to right side of frame), route until wiring arrives near turn signal connector. Install clips and/or wire guides saved in earlier step. Use wire ties to secure turn signal wiring to switch wiring along the route.
- On right side turn signal 2-place connector, follow notes saved from removal step and instructions under Amp Multilock Connectors in Service Manual to install two 2-place terminals to Amp connector. Connect male and female connector halves. Repeat this step for the left turn signal wiring and connector.

WARNING

Gasoline is extremely flammable and highly explosive. When servicing the fuel system, do not smoke or allow open flame or sparks in the vicinity. Inadequate safety precautions can result in death or serious injury.

- Tighten the fuel tank. Refer to FUEL TANK-INSTALLATION (AFTER PARTIAL REMOVAL) in the appropriate section (Carbureted or EFI Engine) of the Service Manual.
- Follow instructions in the Service Manual to install a new right grip/throttle sleeve to the handlebar, and connect the throttle cables.

NOTE

If the handlebar grips are patterned, align the pattern on the left grip with the pattern on the right grip with the throttle in the fully closed position.

- Install a new handlebar grip on the left end of the new handlebar according to the handlebar grip instruction sheet.
- Adjust the positions of the switch housings, and the clutch and brake-lever assemblies on the handlebar for rider posture and comfort. The brake master cylinder must be horizontally level.

NOTE

Tighten the lower switch-housing screw before tightening the upper switch-housing screw. This will leave any gap in the switch housing at the front of the switch-housing assembly for best appearance.

- Using a T27 TORX drive head, tighten first the upper, then the lower brake-lever and clutch-lever clamp screws to 60-80 in-lbs (6.8-9.0 Nm).
- Using a T25 TORX drive head, tighten first the lower, then the upper handlebar-switch housing screws to 35-45 in-lbs (4.0-5.1 Nm).
- Verify that the right grip/throttle sleeve rotates and returns freely and does not bind on the handlebar or switch housing.

Final Assembly

WARNING

Do not re-use brake-line gaskets. Use of original brake-line gaskets could cause front brake failure and loss of control which could result in death or serious injury.

CAUTION

To avoid leakage, verify that the washers, banjo bolt, brake line and caliper bore are completely clean.

- See Figure 4 and the Service Parts illustration.

Use the stock banjo bolts and new brake-line gaskets (items 6 and 7) from the kit to fasten the new braided front brake line assembly (4) between the front-brake master cylinder and the front-brake calipers.

Replace the stock "P"-clamps with the new clamps (8 and 9) from the kit. Route the brake line through the new clamps and adjust as necessary.

Torque the banjo bolts to 17-20 ft-lbs (23-30 Nm). Torque the brake line manifold screw to 10-15 ft-lbs (13.6-20.3 Nm).

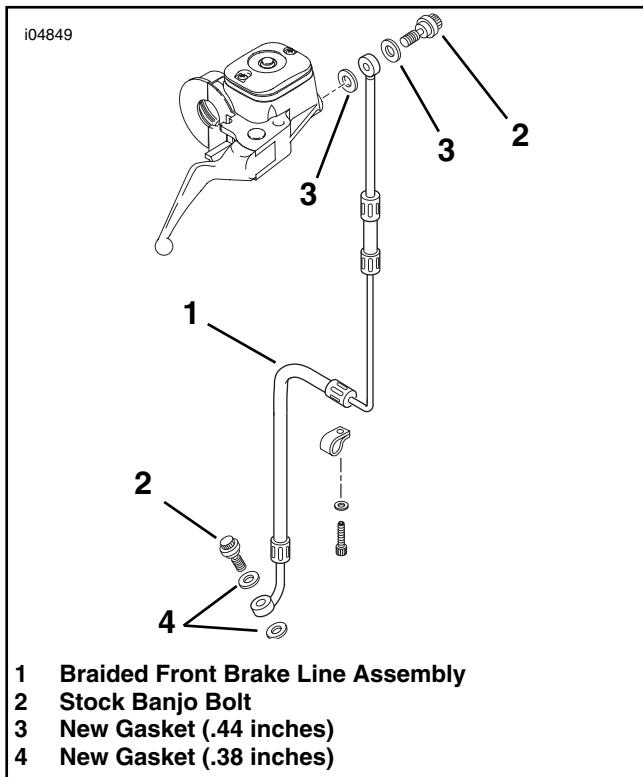


Figure 4. Front Braided Brake line Assembly

- Bleed the brakes. See BLEEDING HYDRAULIC BRAKES in the Service Manual.

Safety Check

- Turn the handlebar to the left and right steering stops, testing the handlebar control functions at each stop.

WARNING

Clutch cables must not pull tight when handlebars are turned fully to left or right fork stops. Be sure wires and cables are clear of fork stops at steering head so they will not be pinched when fork is turned against stops.

Steering must be smooth and free with no binding or interference. Interference with steering could result in loss of vehicle control and death or serious injury.

⚠️WARNING

Connect positive (+) battery cable first. If positive (+) cable should contact ground with negative (-) cable connected, the resulting sparks can cause a battery explosion, which could result in death or serious injury. (00068a).

2. Connect the negative battery cable.
3. Turn the Ignition/Light Key Switch to IGNITION and test each handlebar switch for proper operation.
4. Apply the front brake hand lever to test operation of the brake lamp.
5. Refer to the Service Manual, and follow instructions to install the seat.

⚠️WARNING

After installing seat, pull upward on front of seat to be sure it is in locked position. While riding, a loose seat can shift causing loss of control, which could result in death or serious injury. (00070a)

⚠️WARNING

Prior to starting engine, verify that the throttle control will snap back to the idle position when released. A throttle control that prevents the engine from automatically returning to idle can lead to a loss of control, which could result in death or serious injury.

⚠️WARNING

After completing this installation and bleeding the system, always test motorcycle brakes at low speed. If brakes are not operating properly, or braking efficiency is poor, testing at high speeds could result in death or serious injury.

CAUTION

Carefully pull the wires through the hole in the riser of the handlebar to prevent stripping the conduit and wires. Stripped wires can damage the vehicle electrical components.



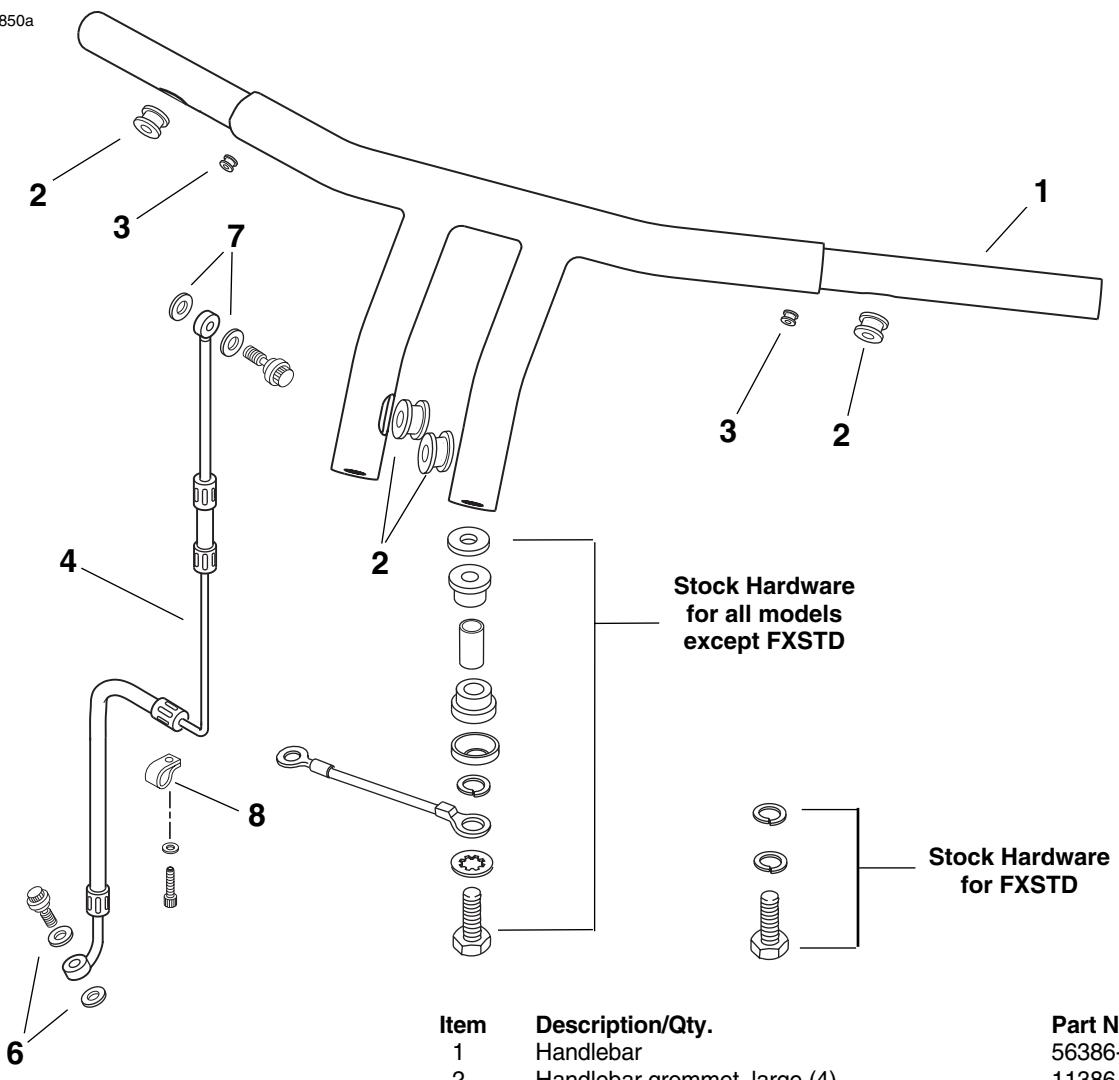
Service Parts

Part Number 56369-03

Date 8/03

Street Slammer Handlebar Kit

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Item	Description/Qty.	Part Number
1	Handlebar	56386-03
2	Handlebar grommet, large (4)	11386
3	Handlebar grommet, small (2)	11398
4	Braided front brake line kit (contains items 5-10)	45264-98B
5	Braided brake line	45265-98A
6	Brake line gasket, .38" I.D.(2)	41731-88A
7	Brake line gasket, .44" I.D. (2)	41733.88
8	"P"- clamp	68562-84
9	"P"- clamp	71795-63A
10	Cable strap (not shown)	10065